UserForm4 - 1

```
Private Sub Label11_Click()

End Sub

Private Sub Label16_Click()

End Sub

Private Sub Label19_Click()

End Sub

Private Sub Label20_Click()

End Sub

Private Sub Label23_Click()

End Sub

Private Sub Label26_Click()

End Sub

Private Sub Label3_Click()

End Sub

Private Sub Label31_Click()

End Sub

Private Sub Label4_Click()

End Sub

Private Sub Label5_Click()

End Sub

Private Sub TextBox29_Change()

End Sub

Private Sub TextBox3_Change()

End Sub

Private Sub TextBox31_Change()

End Sub

Private Sub TextBox4_Change()

End Sub

Private Sub TextBox5_Change()

End Sub

Private Sub TextBox6_Change()

End Sub

Private Sub TextBox8_Change()

End Sub

Private Sub TextBox9_Change()

End Sub
```

```
UserForm4 - 2


Private Sub TextBox9_Exit(ByVal Cancel As MSForms.ReturnBoolean)

End Sub

Private Sub TextBox9_KeyDown(ByVal KeyCode As MSForms.ReturnInteger, ByVal Shift As Integer)

End Sub

Private Sub TextBox9_KeyPress(ByVal KeyAscii As MSForms.ReturnInteger)

End Sub

Private Sub TextBox9_MouseDown(ByVal Button As Integer, ByVal Shift As Integer, ByVal X As Single, ByV
al Y As Single)

End Sub

Private Sub TextBox9_MouseMove(ByVal Button As Integer, ByVal Shift As Integer, ByVal X As Single, ByV
al Y As Single)

End Sub

Private Sub TextBox9_MouseUp(ByVal Button As Integer, ByVal Shift As Integer, ByVal X As Single, ByVal
 Y As Single)

End Sub



End Sub
If ok = True Then FORM

End Sub
If CANCELL = FALS Then FORM
End Sub
Else: Show
Next FORM
End Sub
If text = True Then



Private Sub Frame1_Click()

End Sub



End Sub



End Sub



End Sub



End Sub


End Sub
If ok = True Then FORM

End Sub
If CANCELL = FALS Then FORM
End Sub
```

```
UserForm4 - 3

Else: Show
Next FORM
End Sub
If text = True Then

()
    If TextBox9.text = "IEC61850" Then
        MsgBox "Protocol accepted. Proceed to IED configuration."
    ElseIf TextBox9.text = "FDR-TRP" Then
        MsgBox "Feeder tripped. Initiate fault isolation."
    End If
End Sub
If ok = True Then
    MsgBox "Form submitted. Proceed to next phase."
ElseIf Cancel = False Then
    MsgBox "Form cancelled. Restart required."
End If







    ' Capture user input for fault code
    If TextBox9.text = "FDR-TRP" Then
        MsgBox "Feeder tripped. Check relay settings and breaker status."
    End If
End Sub


    ' Log keypress for rubric tracking
    Debug.Print "Key pressed: " & KeyCode
End Sub







p
End Sub


End Sub



End Sub
Public Function GenerateSHA256(ByVal inputText As String) As String
    Dim shaObj As CSHA256
    Set shaObj = New CSHA256
    GenerateSHA256 = shaObj.SHA256(inputText)
    Set shaObj = Nothing
End Function

    Dim productName As String
    productName = TextBox1.text
    TextBox2.text = GenerateSHA256(productName) ' SHA ID output
End Sub
 ' "Issue Certificate" button
    If TextBox2.text <> "" Then
        MsgBox "Certificate issued for product: " & TextBox1.text & vbCrLf & "SHA ID: " & TextBox2.tex
t
        ' Optional: Log to registry or export to file
    Else
        MsgBox "SHA ID missing. Cannot issue certificate."
    End If
End Sub
```

```
UserForm4 - 4

End Sub
Function K_Rdiv1(R1, R2)
   ' Gain of resistor divider
   K_Rdiv1 = R2 / (R2 + R1)

End FunctionFunction Tri_Wave(t, V1, V2, T1, T2)

' ************************************************************
' Generate Triangle Wave
'
' t - time
' V1 - voltage level 1 (initial voltage)
' V2 - voltage level 2
' T1 - period ramping from V1 to V2
' T2 - period ramping from V2 to V1
'************************************************************

Dim t_tri, dV_dt1, dV_dt2 As Double
Dim N As Single

' Calculate voltage rates of change (slopes) during T1 and T2
dV_dt1 = (v2 - v1) / T1
dV_dt2 = (v1 - v2) / T2

' given t, how many full cycles have occurred
N = Application.WorksheetFunction.Floor(t / (T1 + T2), 1)

' calc the time point in the current triangle wave
t_tri = t - (T1 + T2) * N

' if during T1, calculate triangle value using V1 and dV_dt1
If t_tri <= T1 Then
    Tri_Wave = v1 + dV_dt1 * t_tri

' if during T2, calculate triangle value using V2 and dV_dt2
Else
   Tri_Wave = v2 + dV_dt2 * (t_tri - T1)

End If
 given t, how many full cycles have occured
N = Application.WorksheetFunction.Floor(t / (T1 + T2), 1)

' calc the time point in the current triangle wave
t_tri = t - (T1 + T2) * N

End FunctionIf t_tri <= T1 ThenElse
   Tri_Wave = v2 + dV_dt2 * (t_tri - T1)
    Tri_Wave = v1 + dV_dt1 * t_tri
    Function K_op_non(R1, R2)
   ' Op amp closed loop gain - non-inverting amplifier
   K_op_non = (R2 + R1) / R1

End Function

Function SineWave(t, Vp, fo, Phase, Vdc)
  ' create sine wave
  ' phase in deg

  Dim pi As Double
  pi = 3.1415927

  'Calc sine wave
  SineWave = Vp * Sin(2 * pi * fo * t + Phase * pi / 180) + Vdc

End Function

Function K_op_inv(R1, R2)
   ' Op amp closed loop gain - inverting amplifier
   K_op_inv = -R2 / R1

End Functionn
```

UserForm4 - 5

End Sub

Private Sub UserForm17_Terminate()

End Sub

End Subtshingombe fiston

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Web-Based Crime Management System for Samara City Main Police Station

Demelash Lemmi Ettisa1, Minota Milkias2

Abstract

Crime is a human experience, and it must be controlled. The Samara town police station plays a signifi
cant role in controlling crime. However, the management of crime activities is done manually, which is
 due to the lack of an automated system that supports the station workers in communicating with citize
ns to share information and store, retrieve, and manage crime activities. To control crime efficiently
, we need to develop online crime management systems.

This project, entitled "Web-Based Crime Management System," is designed to develop an online applicati
on in which any citizen can report crimes; if anybody wants to file a complaint against crimes, they m
ust enjoy online communication with the police. This project provides records of crimes that have led
to disciplinary cases in addition to being used to simply retrieve information from the database. The
system implemented is a typical web-based crime record management system based on client-server archit
ecture, allowing data storage and crime record interchange with police stations.

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Chapter One
1. Introduction to the Study

The "Crime Management System" is a web-based website for online complaining and computerized managemen
t of crime records (Khan et al., 2008).

A criminal is a popular term used for a person who has committed a crime or has been legally convicted
 of a crime. "Criminal" also means being connected with a crime. When certain acts or people are invol
ved in or related to a crime, they are termed as criminal (Wex, 2023).

Samara City 's main police station is located in Samara City, within the Afar Regional State. It was e
stablished in 1984 E.C. with the purpose of protecting local communities from criminal activities. The
 Samara City police station is situated near the diesel suppliers in Samara City. In the first phase,
there was a small number of police members, including commanders, inspectors, and constables. But rece
ntly, more than 170 police members have been employed. It is a well-organized police station that serv
es in crime prevention; the detection and conviction of criminals depend on a highly responsive manner
. The effectiveness of this station is based on how efficient, reliable, and fast it is. As a conseque
nce, the station maintains a large volume of information. To manage their information requirements, th
e station is currently using an information system. This system is manual and paper-based, where infor
mation is passed hand-to-hand, and information is kept in hard-copy paper files stored ordinarily in f
ili

```
Private Sub UserForm_Click()

End Sub
```

TRADE THEORIE AND PRACTICA TOOLS LAB WORKSHOP MANUFACTURE / FORM , FRAMEWORK , LABEL QUALIFICATION COMPETITION ITEM DESIGN PHASE FINAL SEMI F

Frame1

REQUIREMENT COMPONENT TOOLS

text1=label 2requiremr

LABEL NUMBER

text10=label 11number

RADIO , TV

TRAIN KIT

text 2=label3 train kit

TRANSISTOR , LABEL PIN DESIG

=label12 transistor label desi

ANTENANT

MATERIAL COPPER

t3=label 4 material copp

SEMI CONDUCTOR

xt 12=label 13 semi conductoı

Label20

PROCEDURE CONSTRUCTION

text4=label5 procedure c

DIODE

text 13=label14 diode

SI NUMBER

TEST 1, 2, 3

text5=label6 test 1,2,3

THYRISTOR

text 14 =label 15 thyristor

MEGER

MOUNTED

text 6=label 7 mounted

TRIAC

text 15=label 16 triac

VOLTAGE

Label8

" "

ITEGRET CIRCUIT

text 16=label 17 integer circuit

, DC MOTOR , REQUIREMENT , TOOLS, INSTRUMENT MATERIAL , PROCEDURE

Label9

" "

OSCILLATOR

text 17 = label 18 oscillator

AC MOTOR , REQUIREMNT TOOLS , EQUIPEMENT , MATERIAL , PROCEDURE AC

OK

CANCEL

NEXT